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LHCb fixed target results and prospects

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Among the main LHC experiments, LHCb is the only detector that can run both in collider and fixed-target mode. Internal gas targets of helium, neon and argon have been used so far to collect samples corresponding to integrated luminosities up to 0.1 pb^{-1} . An upgraded target, allowing for a wider choice of target gas species and increasing the gas density by up to two orders of magnitude, is going to be installed for the LHC Run 3. This offers a unique opportunity for measurements of great interest going from QCD to astroparticle in unexplored kinematic regions. Results and prospects on open and hidden charm productions will be presented, which can provide crucial constraints on cold nuclear matter effects and nPDF at large x .

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